```
1 /*
 2 Display.h - A simple track GPS to SD card logger. Display module.
 3 TinyTrackGPS v0.11
4
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 7
 8 rafael.reyes.carmona@gmail.com
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23
24 */
25
26 #if ARDUINO >= 100
     #include "Arduino.h"
27
28 #else
    #include "WProgram.h"
29
30 #endif
31
32 #ifndef Display_h
33 #define Display h
35 #include "config.h"
36
37 #if defined(DISPLAY TYPE LCD 16X2)
       #include <LiquidCrystal.h>
38
39 #elif defined(DISPLAY_TYPE_LCD_16X2_I2C)
       #include <LiquidCrystal_I2C.h>
41 #elif defined(DISPLAY_TYPE_SDD1306_128X64)
42
       #define U8X8_HAVE_HW_I2C
43
       #include <U8x8lib.h>
44
       //#include <U8g2lib.h>
45 #elif defined(DISPLAY_TYPE_SDD1306_128X64_lcdgfx)
46
       #include <lcdgfx.h>
47 #endif
48
49 enum Display Type {
50
       SDD1306 128X64,
                         // Para usar pantalla OLED 0.96" I2C 128x64 pixels
                            // Para usar LCD 16 x 2 carateres.
51
       LCD_16X2,
52
       LCD_16X2_I2C
                           // Para usar LCD 16 x 2 carateres. I2C.
53|};
54
55 class Display {
56
       private:
57
           //byte _offset;
                              // Width pixels or numbers of columns for LCD.
58
           byte _width;
           byte _height;
                               // Height pixels os numbers of rows for LCD.
59
```

```
Display_Type _screen;
60
61
           #if defined(DISPLAY_TYPE_LCD_16X2)
               LiquidCrystal* lcd;
62
           #elif defined(DISPLAY TYPE LCD 16X2 I2C)
63
               LiquidCrystal I2C* lcd;
64
           #elif defined(DISPLAY_TYPE_SDD1306_128X64)
65
               //U8G2_SSD1306_128X64_NONAME_1_HW_I2C* u8g2_SSD1306;
66
67
               U8X8 SSD1306 128X64 NONAME HW I2C* u8x8 SSD1306;
           #elif defined(DISPLAY TYPE SDD1306 128X64 lcdgfx)
68
               DisplaySSD1306 128x64 I2C* display;
69
70
           #elif defined(DISPLAY_TYPE_HX1230_96X68)
               U8G2 HX1230_96X68_1_3W_SW_SPI* u8g2_HX1230;
71
72
           #endif
73
74
      public:
75
           Display(Display_Type t = SDD1306_128X64);
76
           Display() = delete;
                                                           // Constructor por defecto.
77
           Display(const Display&) = delete;
                                                           // Constructor de copia.
78
79
           void start();
           void clr();
80
81
           void print(int, int, const char[]);
82
           void print(int, const char[]);
           void print(const char[]);
83
84
           void print(const char[], const char[]);
85
           void print(const char[], const char[]);
           void print(const char[], const char[], const char[]);
86
           void wait_anin(unsigned int);
87
88
           void draw wait(byte);
           void print_PChar(byte);
89
90
           void DrawLogo();
91
           Display_Type display_type(){return _screen;};
92 };
93
94 extern const uint8_t TinyTrackGPS_font8x16[] PROGMEM;
95 extern const uint8_t Logo[] PROGMEM;
96
97 #endif
```